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1 Automation of differential blood count
Sinha, N.; Ramakrishnan, A.G.;

TENCON 2003. Conference on Convergent Technologies for Asia-Pacific Region , Volume: 2 , 15-17 Oct. 2003

Pages:547 - 551 Vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(411 KB\)\]](#) IEEE CNF
2 A hierarchical artificial neural network system for the classification of cervical cells
Bazoon, M.; Stacey, D.A.; Chen Cui; Harauz, G.;

Neural Networks, 1994. IEEE World Congress on Computational Intelligence., 1994 IEEE International Conference on , Volume: 6 , 27 June-2 July 1994

Pages:3525 - 3529 vol.6

[\[Abstract\]](#) [\[PDF Full-Text \(292 KB\)\]](#) IEEE CNF
3 Segmentation and analysis of liver cancer pathological color images based on artificial neural networks
Sammouda, M.; Sammouda, R.; Niki, N.; Mukai, K.;

Image Processing, 1999. ICIP 99. Proceedings. 1999 International Conference on , Volume: 3 , 24-28 Oct. 1999

Pages:392 - 396 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(548 KB\)\]](#) IEEE CNF

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Analyzing blood cell image to distinguish its abnormalities \(poster session\)](#)

K. S. Kim, P. K. Kim, J. J. Song, Y. C. Park

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**Full text available: [pdf\(338.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we show the blood-cell image classification system to be able to analyze and distinguish blood cells in the peripheral blood image. To distinguish their abnormalities, we segment red and white-blood cell in an image acquired from microscope with CCD camera and then, apply the various feature extraction algorithms to classify them. In addition to, we use neural network model to reduce multi-variate feature number based on PCA (Principal Component Analysis) to make classifier more ...

Keywords: abnormal cell classification, blood cell image analysis**2** [Image-based skin color and texture analysis/synthesis by extracting hemoglobin and melanin information in the skin](#)

Norimichi Tsumura, Nobutoshi Ojima, Kayoko Sato, Mitsuhiro Shiraishi, Hideto Shimizu, Hirohide Nabeshima, Syuuichi Akazaki, Kimihiko Hori, Yoichi Miyake

July 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 3Full text available: [pdf\(2.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an E-cosmetic function for digital images based on physics and physiologically-based image processing. A practical skin color and texture analysis/synthesis technique is introduced for this E-cosmetic function. Shading on the face is removed by a simple color vector analysis in the optical density domain as an inverse lighting technique. The image without shading is analyzed by a previously introduced technique that extracts hemoglobin and melanin components by independent co ...

Keywords: hemoglobin, independent component analysis, inverse lighting, melanin, physiologically-based rendering, pyramid-based texture analysis and synthesis, skin color, skin texture**3** [Human vision and computer graphics](#)

Fanya S. Montalvo

August 1979 **ACM SIGGRAPH Computer Graphics , Proceedings of the 6th annual****conference on Computer graphics and interactive techniques**, Volume 13 Issue

2

Full text available:  [pdf\(402.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Is one picture really worth a thousand words? Why do cleverly designed graphic displays make visual information stand out more clearly with strikingly greater impact than numbers buried in pages of computer printout? Graphic output devices shift the burden of integrating information generated by computers onto the human vision system: the sensory channel with the highest capacity for distributed parallel processing. The system consists of hundreds of successive two-dimensional ar ...

4 [Gene functional classification from heterogeneous data](#)

Paul Pavlidis, Jason Weston, Jinsong Cai, William Noble Grundy

April 2001 **Proceedings of the fifth annual international conference on Computational biology**

Full text available:  [pdf\(103.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In our attempts to understand cellular function at the molecular level, we must be able to synthesize information from disparate types of genomic data. We consider the problem of inferring gene functional classifications from a heterogeneous data set consisting of DNA microarray expression measurements and phylogenetic profiles from whole-genome sequence comparisons. We demonstrate the application of the support vector machine (SVM) learning algorithm to this functional inference task. Our re ...

5 [A method for sharing interactive deformations in collaborative 3D modeling](#)

Hiroaki Nishino, Kouichi Utsumiya, Kazuyoshi Korida, Atsunori Sakamoto, Kazuyuki Yoshida

December 1999 **Proceedings of the ACM symposium on Virtual reality software and technology**

Full text available:  [pdf\(2.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes a new approach to collaboratively designing original products and crafted objects in a distributed virtual environment. Special attention is paid to concept formulation and image substantiation in the early design stage. A data management strategy and its implementation method are shown to effectively share and visualize a series of shape-forming and modeling operations performed by experts on a network. A 3D object representation technique is devised to manage frequentl ...

Keywords: 3D object modeling, collaborative design, computer graphics, distributed virtual environment

6 [Posters & demos: Speech driven facial animation](#)

P. Kakumanu, R. Gutierrez-Osuna, A. Esposito, R. Bryll, A. Goshtasby, O. N. Garcia

November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces**

Full text available:  [pdf\(880.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The results reported in this article are an integral part of a larger project aimed at achieving perceptually realistic animations, including the individualized nuances, of three-dimensional human faces driven by speech. The audiovisual system that has been developed for learning the spatio-temporal relationship between speech acoustics and facial animation is described, including video and speech processing, pattern analysis, and MPEG-4 compliant facial animation for a given speaker. In particu ...

Keywords: MPEG-4, computer vision, facial animation, lip-syncing, speech processing

One class SVM for yeast regulation prediction

Adam Kowalczyk, Bhavani Raskutti

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2Full text available:  [pdf\(40.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we outline the main steps leading to the development of the winning solution for Task 2 of KDD Cup 2002 (Yeast Gene Regulation Prediction). Our unusual solution was a pair of linear classifiers in high dimensional space ($\sim 14,000$), developed with just 38 and 84 training examples, respectively, all belonging to the target class only. The classifiers were built using the support vector machine approach outlined in the paper.

Keywords: One Class Learning, SVM, Support Vector Machines, yeast gene

8 Synthetic aperture radar image formation with neural networks

Ted Frison, S. Walt McCandless, Robert Renze

May 1991 **Proceedings of the conference on Analysis of neural network applications**Full text available:  [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)9 Neural nets for image restoration

A. D. Kulkarni

January 1990 **Proceedings of the 1990 ACM annual conference on Cooperation**Full text available:  [pdf\(584.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No imaging system in practice is perfect, in fact the recorded images are always distorted or of finite resolution. An image recording system can be modeled by a Fredholm integral equation of the first kind. An inversion of the kernel representing the system, in the presence of noise, is an ill posed problem. The direct inversion often yields an unacceptable solution. In this paper, we suggest an Artificial Neural Network (ANN) architecture to solve ill posed problems in the presence of noi ...

10 Radiographic image compression: a neural approach

Sridhar Narayan, Edward W. Page, Gene A. Tagliarini

May 1991 **Proceedings of the conference on Analysis of neural network applications**Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)11 Bibliography of recent publications on computer communication

Martha Steenstrup

January 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 1Full text available:  [pdf\(2.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and tho ...

12 Session 5A: Artificial intelligence: Artificial neural network-based image pattern recognition

Hong Zhang, Jian Guan, Gwong C. Sun

April 1992 **Proceedings of the 30th annual Southeast regional conference**

Full text available:  pdf(228.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper addresses the use of a multi-layer fully-connected perceptron neural network for implementing a pattern recognizer. The input of the neural network is a set of seven standardized invariant moments in both the training procedure and recognition procedure. This standardization results in significantly increasing the accuracy of recognition. The neural network in this paper can recognize the shape of patterns regardless of the size, location or brightness. Images are captured and transfo ...

Keywords: back propagation, neural network, pattern recognition, standardized invariant moments

13 Posters: Image classification using hybrid neural networks

Chih-Fong Tsai, Ken McGarry, John Tait

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Full text available:  pdf(199.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Use of semantic content is one of the major issues which needs to be addressed for improving image retrieval effectiveness. We present a new approach to classify images based on the combination of image processing techniques and hybrid neural networks. Multiple keywords are assigned to an image to represent its main contents, i.e. semantic content. Images are divided into a number of regions and colour and texture features are extracted. The first classifier, a self-organising map (SOM) clusters ...

Keywords: content-based image retrieval, image indexing/classification, neural networks

14 Combining multi-visual features for efficient indexing in a large image database

Anne H. H. Ngu, Quan Z. Sheng, Du Q. Huynh, Ron Lei

April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available:  pdf(493.09 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The optimized distance-based access methods currently available for multidimensional indexing in multimedia databases have been developed based on two major assumptions: a suitable distance function is known a priori and the dimensionality of the image features is low. It is not trivial to define a distance function that best mimics human visual perception regarding image similarity measurements. Reducing high-dimensional features in images using the popular principle component analysis (PCA) mi ...

Keywords: High-dimensional indexing, Image retrieval, Neural network

15 Analysis of a biologically motivated neural network for character recognition

M. D. Garris, R. A. Wilkinson, C. L. Wilson

May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available:  pdf(1.56 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

16 Data mining of multidimensional remotely sensed images

Robert F. Crompt, William J. Campbell

December 1993 **Proceedings of the second international conference on Information and**

knowledge managementFull text available:  [pdf\(1.39 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**17 Spacial classification and multi-spectral fusion with neural networks** 

Craig Harston

May 1991 **Proceedings of the conference on Analysis of neural network applications**Full text available:  [pdf\(546.63 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**18 Modeling II: 3D object reconstruction and representation using neural networks** 

Lim Wen Peng, Siti Mariyam Shamsuddin

June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and Southe East Asia**Full text available:  [pdf\(468.49 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

3D object reconstruction is frequent used in various fields such as product design, engineering, medical and artistic applications. Numerous reconstruction techniques and software were introduced and developed. However, the purpose of this paper is to fully integrate an adaptive artificial neural network (ANN) based method in reconstructing and representing 3D objects. This study explores the ability of neural networks in learning through experience when reconstructing an object by estimating it ...

Keywords: [affined transformation](#), [back propagation](#), [multilayer feed-forward neural networks](#), [object space](#), [reconstruction](#), [representation](#), [third order polynomial](#)

19 Artificial neural network models for texture classification via: the Radon transform 

A. D. Kulkarni, P. Byars

March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**Full text available:  [pdf\(448.54 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**20 Fuzzy neural network models for clustering** 

A. D. Kulkarni, V. K. Muniganti

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**Full text available:  [pdf\(850.43 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)

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21 Facial image retrieval, identification, and inference system

J. K. Wu, Y. H. Ang, P. C. Lam, S. K. Moorthy, A. D. Narasimhalu

September 1993 **Proceedings of the first ACM international conference on Multimedia**

Full text available: pdf(293.46 KB)

ps(2.38 MB)

Additional Information: full citation, references, index terms

22 Automated cataloging and analysis of sky survey image databases: the SKICAT system

Usama M. Fayyad, Nicholas Weir, S. Djorgovski

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available: pdf(1.31 MB)

Additional Information: full citation, references, index terms

23 An ASIC design for real-time image processing in industrial applications

M. Valle, G. Nateri, D. D. Caviglia, G. M. Bisio, L. Briozzo

March 1995 **Proceedings of the 1995 European conference on Design and Test**

Full text available: pdf(526.36 KB)

Additional Information: full citation, abstract

 Publisher Site

In this paper we present the design of an ASIC chip for real-time image processing in industrial applications. The chip is a module of a system for the automatic surface inspection of mechanical parts: it implements the feed-forward phase of a neural network model (multi-layer perceptron with local connections) tuned to the specific application. The design has been performed in 0.7 μm CMOS technology using an approach based on high level transformations of the VHDL specifications. Special ...

Keywords: 0.7 micron, ASIC chip, ASIC design, CMOS digital integrated circuits, CMOS technology, VHDL specifications, application specific integrated circuits, automatic optical inspection, automatic surface inspection, circuit CAD, deep pipeline, digital signal processing chips, feed-forward phase, high level transformations, image processing equipment, image recognition, industrial applications, integrated circuit design, local connections, logic CAD, mechanical parts, multi-layer perceptron, multilayer perceptrons, neural chips, neural network model, pipeline processing, real-time image processing, real-

time systems

24 A wavelet-based neuro-fuzzy system for data mining small image sets

Brendon J. Woodford, Da Deng, George L. Benwell

January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32**

Full text available:  [pdf\(327.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Creating a robust image classification system depends on having enough data with which one can adequately train and validate the model. If there is not enough available data, this assumption may not hold and would result in a classifier that exhibits poor performance, thus lowering its acceptability. This paper offers a solution to the problem of training and testing a neuro-fuzzy system for the purpose of image recognition when there are a limited number of images. Features of interest are seg ...

Keywords: multimedia data mining, pattern recognition, spatial data mining

25 A comparative study of neural network algorithms applied to optical character recognition

P. Patrick van der Smagt

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Three simple general purpose networks are tested for pattern classification on an optical character recognition problem. The feed-forward (multi-layer perceptron) network, the Hopfield network and a competitive learning network are compared. The input patterns are obtained by optically scanning images of printed digits and uppercase letters. The resulting data is used as input for the networks with two-state input nodes; for others, features are extracted by template matching and pi ...

26 Generalized bidirectional associative memories for image processing

A. D. Kulkarni, Iraj Yazdanpanahi

March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**

Full text available:  [pdf\(537.69 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

27 Neural networks and dynamic complex systems

Geoffrey Fox, Wojtek Furmanski, Alex Ho, Jeff Koller, Peter Simic, Isaac Wong

March 1989 **Proceedings of the 22nd annual symposium on Simulation**

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the use of neural networks for optimization and inference associated with a variety of complex systems. We show how a string formalism can be used for parallel computer decomposition, message routing and sequential optimizing compilers. We extend these ideas to a general treatment of spatial assessment and distributed artificial intelligence.

28 Visualisation and comparison of image collections based on self-organised maps

Da Deng, Jianhua Zhang, Martin Purvis

January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32**

Full text available:  [pdf\(396.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Self-organised maps (SOM) have been widely used for cluster analysis and visualisation purposes in exploratory data mining. In image retrieval applications, SOMs have been used to visualise high-dimensional feature space and build indexing structures. In this paper, we extend the use of SOMs for profiling and comparison of image collections, and present empirical results obtained in collection visualisation, visual and quantitative comparison of collections, and a prototype system implementation ...

29 Performance evaluation of a partial retraining scheme for defective multi-layer neural networks 

Kunihito Yamamori, Toru Abe, Susumu Horiguchi

January 2001 **Australian Computer Science Communications , Proceedings of the 6th Australasian conference on Computer systems architecture**, Volume 23 Issue 4

Full text available:  [pdf\(721.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)
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This paper addresses an efficient stuck-defect compensation scheme for multi-layer artificial neural networks implemented in hardware devices. To compensate for stuck defects, we have proposed a two-stage partial retraining scheme that adjusts weights belonging to a neuron affected by defects based on back-propagation(BP) algorithm between two layers. For input neurons, the partial retraining scheme is applied two times; first-stage between the input layer and the hidden layer, second-stage between the hidden layer and the output layer ...

30 Rendering II: Second order image statistics in computer graphics 

Erik Reinhard, Peter Shirley, Michael Ashikhmin, Tom Troscianko

August 2004 **Proceedings of the 1st Symposium on Applied perception in graphics and visualization**

Full text available:  [pdf\(586.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The class of all natural images is an extremely small fraction of all possible images. Some of the structure of natural images can be modeled statistically, revealing striking regularities. Moreover, the human visual system appears to be optimized to view natural images. Images that do not behave statistically as natural images are harder for the human visual system to interpret. This paper reviews second order image statistics as well as their implications for computer graphics. We show that the ...

31 A FPGA-based implementation of a fault-tolerant neural architecture for photon identification 

M. Alderighi, E. L. Gummati, V. Piuri, G. R. Sechi

February 1997 **Proceedings of the 1997 ACM fifth international symposium on Field-programmable gate arrays**

Full text available:  [pdf\(965.46 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 Efficient content-based indexing of large image databases 

Essam A. El-Kwae, Mansur R. Kabuka

April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2

Full text available:  [pdf\(850.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Large image databases have emerged in various applications in recent years. A prime

requisite of these databases is the means by which their contents can be indexed and retrieved. A multilevel signature file called the Two Signature Multi-level Signature File (2SMLSF) is introduced as an efficient access structure for large image databases. The 2SMLSF encodes image information into binary signatures and creates a tree structures can be efficiently searched ...

Keywords: content analysis and indexing, document managing, image databases, index generation, multimedia databases

33 Student best paper contest: Confidence-based dynamic ensemble for image annotation and semantics discovery

Beitao Li, Kingshy Goh

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available:  [pdf\(275.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Providing accurate and scalable solutions to map low-level perceptual features to high-level semantics is critical for multimedia information organization and retrieval. In this paper, we propose a confidence-based dynamic ensemble (CDE) to overcome the shortcomings of the traditional *static* classifiers. In contrast to the traditional models, CDE can make dynamic adjustments to accommodate new semantics, to assist the discovery of useful low-level features, and to improve class-prediction ...

34 A model of visual adaptation for realistic image synthesis

James A. Ferwerda, Sumanta N. Pattanaik, Peter Shirley, Donald P. Greenberg

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available:  [pdf\(469.77 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: adaptation, realistic image synthesis, vision, visual perception

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Yoshua Bengio, Réjean Ducharme, Pascal Vincent, Christian Janvin

March 2003 **The Journal of Machine Learning Research**, Volume 3

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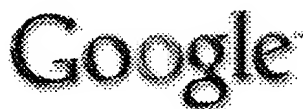
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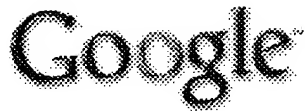
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... around the wound and a **narrow band** of still B, High-magnification **image** showing sprouting fibers ... arrow) is located within macrophage **cytoplasm** (arrowhead) (NSE ...

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Among them, the spherical **cytoplasm**-rich cells and oval Due to the error introduced in **image** analysis, the by data points) distribute within a **narrow band** (Fig ...

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... a LP 595 nm or a **narrow band** (505 530 ... of which were >33% of the maximal **image** intensity (20 of immunofluorescence was detected throughout the **cytoplasm** and cell ...

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... with PUVA, and more recently , **narrow-band** UVB (NBUVB hemorrhage and to accumulate hemosiderin in their **cytoplasm**. **image**Figure 1 - Full thickness burn to sole ...

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... in the posterior segment of the eye, where it is located in the optic nerve, sclera, choroidal fibroblasts, blood ves- sels, vitreous, inner **neural** retina, and ...

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... function, for example, the ability to carry **image** information to A set of cells called cranial **neural** crest cells into the cell via its tail in the **cytoplasm**.

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 ... which were restricted to a **narrow band** under the despite their abundance in the **cytoplasm** and the were averaged and the resulting averaged **image** was subtracted ...

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 ... of the condenser; and a **narrow band** pass interference (Enlarged and digitally smoothed **image** portions were Centripetal transport of **cytoplasm**, actin, and the ...

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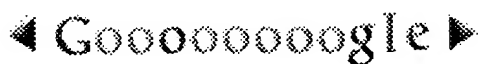
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